

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P256931

Luminaire Tested: **HGL-S-BA-60L940-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: HGL-S-BA-60L940-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (504) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

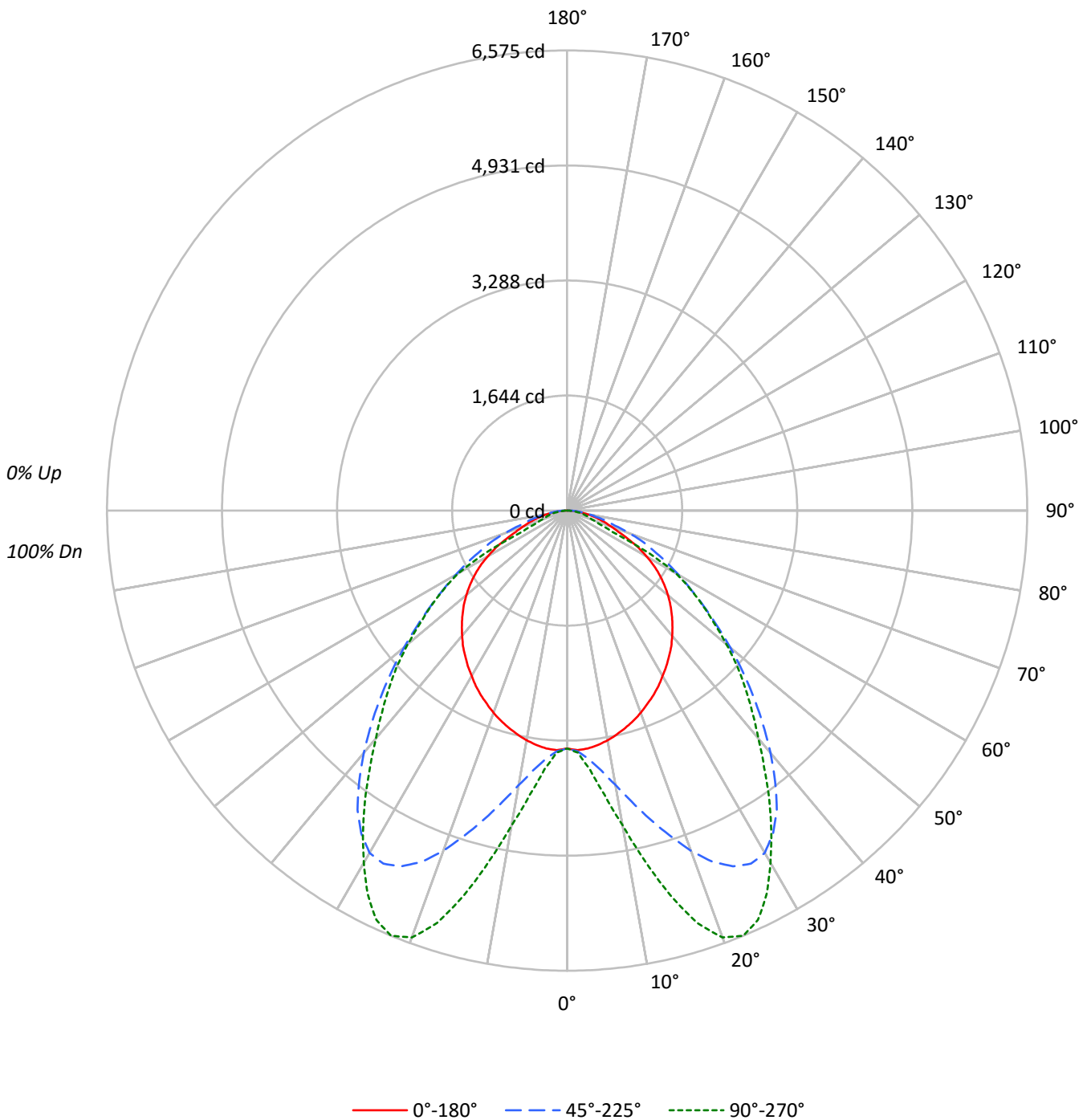
Lumens per Lamp: N/A  
Luminaire Lumens: 13275.2 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')  
CIE Type: Direct

Input Watts (W): 142  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |
| 4   | 85  | 73  | 65  | 59  | 83  | 72  | 64  | 58  | 70  | 63  | 58  | 67  | 62  | 57  | 65  | 60  | 56  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 50  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 41  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13302 | 13302 | 13302 |
| 5°  | 13407 | 13956 | 14527 |
| 10° | 13243 | 15740 | 18023 |
| 15° | 13022 | 18320 | 22785 |
| 20° | 12806 | 21294 | 26615 |
| 25° | 12571 | 23872 | 27313 |
| 30° | 12323 | 25067 | 25614 |
| 35° | 12131 | 24419 | 23330 |
| 40° | 11923 | 22506 | 20965 |
| 45° | 11705 | 20216 | 19131 |
| 50° | 11437 | 17846 | 17198 |
| 55° | 11014 | 15568 | 15201 |
| 60° | 10268 | 13673 | 13101 |
| 65° | 8899  | 11850 | 5856  |
| 70° | 7658  | 9994  | 4048  |
| 75° | 7019  | 7761  | 3661  |
| 80° | 6315  | 6315  | 3202  |
| 85° | 5254  | 5510  | 2187  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 352.2   | 2.7       |
| 10°-20°   | 1285.1  | 9.7       |
| 20°-30°   | 2326.0  | 17.5      |
| 30°-40°   | 2791.4  | 21.0      |
| 40°-50°   | 2644.3  | 19.9      |
| 50°-60°   | 2071.9  | 15.6      |
| 60°-70°   | 1156.4  | 8.7       |
| 70°-80°   | 490.0   | 3.7       |
| 80°-90°   | 152.4   | 1.1       |
| 90°-100°  | 5.5     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 3963.3  | 29.9      |
| 0°-40°    | 6754.6  | 50.9      |
| 0°-60°    | 11470.9 | 86.4      |
| 0°-90°    | 13269.7 | 100.0     |
| 90°-120°  | 5.5     | 0.0       |
| 90°-150°  | 5.5     | 0.0       |
| 90°-180°  | 5.0     | 0.0       |
| 0°-180°   | 13275.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3398 | 3398  | 3398 | 3398  | 3398 |      |
| 5°   | 3412 | 3426  | 3562 | 3680  | 3711 | 323  |
| 15°  | 3214 | 3600  | 4559 | 5397  | 5688 | 906  |
| 25°  | 2912 | 3826  | 5609 | 6293  | 6453 | 1341 |
| 35°  | 2540 | 3913  | 5223 | 5004  | 5032 | 1590 |
| 45°  | 2116 | 3583  | 3767 | 3503  | 3607 | 1632 |
| 55°  | 1616 | 2603  | 2384 | 2307  | 2366 | 1439 |
| 65°  | 963  | 1202  | 1366 | 1098  | 692  | 962  |
| 75°  | 466  | 483   | 573  | 407   | 282  | 496  |
| 85°  | 118  | 136   | 167  | 129   | 73   | 131  |
| 90°  | 0    | 28    | 52   | 35    | 0    | 7    |
| 95°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 105° | 0    | 0     | 0    | 0     | 0    | 0    |
| 115° | 0    | 0     | 0    | 0     | 0    | 0    |
| 125° | 0    | 0     | 0    | 0     | 0    | 0    |
| 135° | 0    | 0     | 0    | 0     | 0    | 0    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 |
| 2.5°   | 3426.3 | 3422.8 | 3412.4 | 3398.5 | 3402.0 | 3405.5 | 3405.5 | 3408.9 | 3412.4 | 3422.8 | 3443.7 |
| 5°     | 3412.4 | 3405.5 | 3402.0 | 3398.5 | 3415.9 | 3426.3 | 3436.7 | 3457.6 | 3481.9 | 3520.1 | 3561.8 |
| 7.5°   | 3377.7 | 3377.7 | 3384.6 | 3398.5 | 3436.7 | 3461.1 | 3481.9 | 3534.0 | 3593.1 | 3666.1 | 3746.0 |
| 10°    | 3332.5 | 3339.4 | 3360.3 | 3391.6 | 3461.1 | 3499.3 | 3541.0 | 3627.9 | 3728.6 | 3850.3 | 3982.3 |
| 12.5°  | 3276.9 | 3290.8 | 3325.5 | 3384.6 | 3488.9 | 3547.9 | 3610.5 | 3742.5 | 3892.0 | 4065.7 | 4260.3 |
| 15°    | 3214.3 | 3231.7 | 3287.3 | 3374.2 | 3516.7 | 3600.1 | 3686.9 | 3867.6 | 4072.7 | 4305.5 | 4559.1 |
| 17.5°  | 3148.3 | 3172.6 | 3249.1 | 3370.7 | 3554.9 | 3659.1 | 3770.3 | 4006.6 | 4270.7 | 4552.2 | 4864.9 |
| 20°    | 3075.3 | 3110.1 | 3207.4 | 3363.8 | 3589.6 | 3718.2 | 3853.7 | 4149.1 | 4472.3 | 4805.9 | 5170.7 |
| 22.5°  | 2991.9 | 3037.1 | 3158.7 | 3349.9 | 3624.4 | 3777.3 | 3937.1 | 4281.2 | 4656.4 | 5035.2 | 5431.4 |
| 25°    | 2912.0 | 2960.7 | 3103.1 | 3332.5 | 3652.2 | 3825.9 | 4010.1 | 4402.8 | 4823.2 | 5222.9 | 5608.6 |
| 27.5°  | 2825.1 | 2880.7 | 3051.0 | 3315.1 | 3673.0 | 3867.6 | 4072.7 | 4503.5 | 4944.9 | 5341.0 | 5688.5 |
| 30°    | 2727.8 | 2800.8 | 2991.9 | 3287.3 | 3683.5 | 3898.9 | 4121.3 | 4583.5 | 5021.3 | 5368.8 | 5646.8 |
| 32.5°  | 2637.5 | 2717.4 | 2925.9 | 3256.0 | 3686.9 | 3916.3 | 4152.6 | 4607.8 | 5021.3 | 5306.3 | 5473.1 |
| 35°    | 2540.2 | 2627.1 | 2859.9 | 3217.8 | 3673.0 | 3912.8 | 4149.1 | 4600.8 | 4948.3 | 5142.9 | 5222.9 |
| 37.5°  | 2442.9 | 2536.7 | 2790.4 | 3165.7 | 3641.8 | 3888.5 | 4124.8 | 4531.3 | 4798.9 | 4903.2 | 4882.3 |
| 40°    | 2335.2 | 2439.4 | 2700.0 | 3099.7 | 3586.2 | 3825.9 | 4051.8 | 4409.7 | 4580.0 | 4597.4 | 4520.9 |
| 42.5°  | 2227.4 | 2335.2 | 2609.7 | 3012.8 | 3492.3 | 3721.7 | 3930.2 | 4215.1 | 4295.1 | 4256.8 | 4138.7 |
| 45°    | 2116.3 | 2227.4 | 2502.0 | 2908.5 | 3374.2 | 3582.7 | 3756.4 | 3961.5 | 3961.5 | 3892.0 | 3766.9 |
| 47.5°  | 2001.6 | 2109.3 | 2387.3 | 2786.9 | 3221.3 | 3402.0 | 3544.5 | 3666.1 | 3610.5 | 3523.6 | 3398.5 |
| 50°    | 1880.0 | 1987.7 | 2258.7 | 2641.0 | 3023.2 | 3172.6 | 3290.8 | 3336.0 | 3249.1 | 3151.8 | 3040.6 |
| 52.5°  | 1751.4 | 1859.1 | 2105.8 | 2456.8 | 2790.4 | 2901.6 | 2988.5 | 2985.0 | 2880.7 | 2793.9 | 2696.6 |
| 55°    | 1615.9 | 1713.2 | 1935.6 | 2237.9 | 2512.4 | 2602.7 | 2654.9 | 2613.2 | 2515.9 | 2435.9 | 2383.8 |
| 57.5°  | 1473.4 | 1553.3 | 1744.4 | 1991.2 | 2196.2 | 2265.7 | 2296.9 | 2241.3 | 2171.9 | 2123.2 | 2095.4 |
| 60°    | 1313.5 | 1379.6 | 1515.1 | 1706.2 | 1855.6 | 1904.3 | 1925.1 | 1886.9 | 1862.6 | 1848.7 | 1841.7 |
| 62.5°  | 1146.7 | 1178.0 | 1264.9 | 1390.0 | 1515.1 | 1549.8 | 1574.2 | 1581.1 | 1577.6 | 1584.6 | 1602.0 |
| 65°    | 962.6  | 973.0  | 1000.8 | 1063.3 | 1160.6 | 1202.3 | 1247.5 | 1296.2 | 1324.0 | 1351.8 | 1365.7 |
| 67.5°  | 792.3  | 795.8  | 809.7  | 830.5  | 868.7  | 913.9  | 952.1  | 1025.1 | 1087.7 | 1139.8 | 1174.5 |
| 70°    | 670.7  | 667.2  | 670.7  | 681.1  | 701.9  | 719.3  | 736.7  | 788.8  | 854.8  | 941.7  | 948.7  |
| 72.5°  | 566.4  | 562.9  | 566.4  | 573.4  | 580.3  | 587.3  | 597.7  | 618.5  | 656.8  | 708.9  | 719.3  |
| 75°    | 465.6  | 465.6  | 465.6  | 472.6  | 479.5  | 483.0  | 490.0  | 496.9  | 510.8  | 549.0  | 573.4  |
| 77.5°  | 371.8  | 368.3  | 375.3  | 378.8  | 382.2  | 389.2  | 392.7  | 399.6  | 406.6  | 420.5  | 437.8  |
| 80°    | 281.5  | 278.0  | 281.5  | 288.4  | 291.9  | 298.8  | 298.8  | 309.3  | 312.7  | 323.2  | 330.1  |
| 82.5°  | 198.1  | 194.6  | 198.1  | 205.0  | 205.0  | 212.0  | 215.4  | 222.4  | 229.3  | 236.3  | 243.2  |
| 85°    | 118.1  | 118.1  | 121.6  | 125.1  | 128.6  | 135.5  | 139.0  | 149.4  | 156.4  | 163.3  | 166.8  |
| 87.5°  | 52.1   | 52.1   | 55.6   | 59.1   | 66.0   | 73.0   | 76.4   | 83.4   | 90.3   | 100.8  | 100.8  |
| 90°    | 0.0    | 3.5    | 10.4   | 17.4   | 20.8   | 27.8   | 27.8   | 38.2   | 41.7   | 48.6   | 52.1   |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.5    | 3.5    | 6.9    | 10.4   | 13.9   |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 | 3398.5 |
| 2.5°   | 3475.0 | 3454.1 | 3468.0 | 3471.5 | 3475.0 | 3468.0 | 3461.1 | 3468.0 | 3461.1 | 3461.1 |
| 5°     | 3614.0 | 3610.5 | 3645.2 | 3669.6 | 3680.0 | 3680.0 | 3700.8 | 3714.7 | 3718.2 | 3711.3 |
| 7.5°   | 3832.9 | 3853.7 | 3923.2 | 3971.9 | 3999.7 | 4013.6 | 4051.8 | 4072.7 | 4100.5 | 4097.0 |
| 10°    | 4121.3 | 4187.3 | 4291.6 | 4361.1 | 4409.7 | 4434.1 | 4489.6 | 4527.9 | 4573.0 | 4569.6 |
| 12.5°  | 4437.5 | 4559.1 | 4705.1 | 4816.3 | 4889.3 | 4934.4 | 5007.4 | 5076.9 | 5118.6 | 5122.1 |
| 15°    | 4795.4 | 4962.2 | 5160.3 | 5302.8 | 5396.6 | 5455.7 | 5556.5 | 5626.0 | 5695.5 | 5688.5 |
| 17.5°  | 5146.4 | 5348.0 | 5587.7 | 5775.4 | 5862.3 | 5917.9 | 6039.5 | 6112.5 | 6178.5 | 6178.5 |
| 20°    | 5459.2 | 5692.0 | 5935.2 | 6109.0 | 6192.4 | 6248.0 | 6352.2 | 6425.2 | 6473.9 | 6491.2 |
| 22.5°  | 5709.4 | 5924.8 | 6129.8 | 6279.3 | 6331.4 | 6376.6 | 6456.5 | 6515.6 | 6546.8 | 6574.6 |
| 25°    | 5848.4 | 6022.1 | 6161.1 | 6265.4 | 6293.2 | 6317.5 | 6362.7 | 6407.8 | 6414.8 | 6453.0 |
| 27.5°  | 5851.8 | 5980.4 | 6056.9 | 6095.1 | 6098.6 | 6098.6 | 6129.8 | 6147.2 | 6161.1 | 6175.0 |
| 30°    | 5726.7 | 5785.8 | 5799.7 | 5803.2 | 5785.8 | 5775.4 | 5796.2 | 5799.7 | 5810.1 | 5810.1 |
| 32.5°  | 5476.5 | 5490.4 | 5466.1 | 5427.9 | 5417.5 | 5396.6 | 5410.5 | 5403.6 | 5420.9 | 5431.4 |
| 35°    | 5156.8 | 5132.5 | 5070.0 | 5042.2 | 5003.9 | 4993.5 | 5003.9 | 4997.0 | 5007.4 | 5031.7 |
| 37.5°  | 4792.0 | 4739.8 | 4687.7 | 4639.1 | 4611.3 | 4583.5 | 4593.9 | 4604.3 | 4618.2 | 4625.2 |
| 40°    | 4416.7 | 4347.2 | 4291.6 | 4242.9 | 4215.1 | 4194.3 | 4211.7 | 4222.1 | 4253.4 | 4253.4 |
| 42.5°  | 4037.9 | 3961.5 | 3905.9 | 3874.6 | 3853.7 | 3836.4 | 3864.2 | 3871.1 | 3909.3 | 3916.3 |
| 45°    | 3662.6 | 3596.6 | 3551.4 | 3520.1 | 3502.8 | 3509.7 | 3537.5 | 3554.9 | 3589.6 | 3607.0 |
| 47.5°  | 3318.6 | 3263.0 | 3214.3 | 3200.4 | 3200.4 | 3207.4 | 3235.2 | 3252.6 | 3280.4 | 3301.2 |
| 50°    | 2981.5 | 2939.8 | 2908.5 | 2891.2 | 2894.6 | 2905.1 | 2929.4 | 2943.3 | 2971.1 | 2971.1 |
| 52.5°  | 2651.4 | 2623.6 | 2609.7 | 2588.8 | 2588.8 | 2585.4 | 2609.7 | 2623.6 | 2644.4 | 2647.9 |
| 55°    | 2363.0 | 2338.6 | 2324.7 | 2310.8 | 2307.4 | 2314.3 | 2328.2 | 2338.6 | 2363.0 | 2366.4 |
| 57.5°  | 2088.5 | 2078.0 | 2067.6 | 2057.2 | 2053.7 | 2057.2 | 2064.1 | 2071.1 | 2085.0 | 2088.5 |
| 60°    | 1838.3 | 1834.8 | 1820.9 | 1810.5 | 1807.0 | 1803.5 | 1800.0 | 1796.6 | 1803.5 | 1800.0 |
| 62.5°  | 1608.9 | 1598.5 | 1588.1 | 1567.2 | 1556.8 | 1529.0 | 1494.2 | 1417.8 | 1355.2 | 1320.5 |
| 65°    | 1383.0 | 1376.1 | 1327.4 | 1185.0 | 1098.1 | 986.9  | 868.7  | 754.1  | 715.8  | 691.5  |
| 67.5°  | 1164.1 | 1049.4 | 875.7  | 750.6  | 705.4  | 663.7  | 601.2  | 538.6  | 503.9  | 483.0  |
| 70°    | 837.5  | 740.2  | 660.2  | 590.7  | 559.5  | 535.1  | 486.5  | 441.3  | 410.0  | 396.1  |
| 72.5°  | 677.6  | 615.1  | 562.9  | 510.8  | 486.5  | 458.7  | 410.0  | 364.9  | 337.1  | 323.2  |
| 75°    | 566.4  | 528.2  | 476.1  | 427.4  | 406.6  | 385.7  | 351.0  | 316.2  | 291.9  | 281.5  |
| 77.5°  | 448.3  | 427.4  | 396.1  | 357.9  | 340.5  | 326.6  | 295.4  | 271.0  | 246.7  | 236.3  |
| 80°    | 330.1  | 323.2  | 302.3  | 274.5  | 260.6  | 250.2  | 225.9  | 205.0  | 184.2  | 177.2  |
| 82.5°  | 243.2  | 236.3  | 218.9  | 198.1  | 191.1  | 180.7  | 163.3  | 145.9  | 132.0  | 125.1  |
| 85°    | 166.8  | 163.3  | 149.4  | 135.5  | 128.6  | 121.6  | 104.2  | 90.3   | 79.9   | 73.0   |
| 87.5°  | 104.2  | 100.8  | 93.8   | 79.9   | 73.0   | 66.0   | 52.1   | 41.7   | 31.3   | 27.8   |
| 90°    | 52.1   | 52.1   | 48.6   | 38.2   | 34.7   | 31.3   | 20.8   | 10.4   | 3.5    | 0.0    |
| 92.5°  | 13.9   | 13.9   | 13.9   | 10.4   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P256931

CATALOG NUMBER: HGL-S-BA-60L940-UNV-12

**CANDELA DISTRIBUTION (continued):**

|        | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)